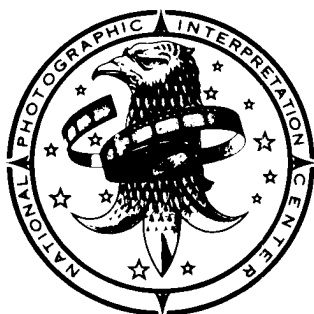


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(See inside cover)



Summary Report

NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

EVIDENCE OF A NEW SHIP CONSTRUCTION PROGRAM AT LENINGRAD SHIPYARD ZHDANOV 190, USSR

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JULY 1977

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SR-040/77

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
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Evidence of a New Ship Construction Program at Leningrad Shipyard Zhdanov 190, USSR (S)

(TSR) Increasing photographic evidence indicates that a new class of ship, probably a surface combatant, is being constructed at Leningrad Shipyard Zhdanov 190, USSR 

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 At least four subassemblies, which cannot be readily associated with existing construction programs, have been seen at the shipyard.


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(TSR)  an unidentified main deck bow plate and an unidentified superstructure section were first observed in the platen area, south of the old lattice-covered ways (Area K, V/H 10.5/21.5).^{*} Mensuration from photography  showed the main bow plate 

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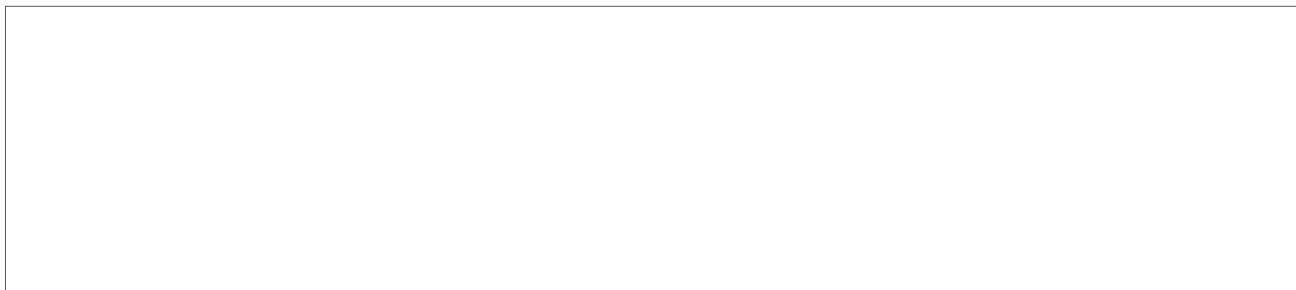
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 this bow plate (Figure 1) had been placed next to the four-dish cluster array for Vytegrale conversion (Area K, V/H 9/21.4).



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(TSR)  an incomplete bow section was adjacent to the transverser and south of the construction hall (Area H, V/H 14.5/27). This section (Figure 3) was approximately 23.0 meters long with a beam of 6.0 meters at its widest point. The longitudinal framing seen on this section is indicative of combatant construction. This section was removed from this position 



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(TSR)  an unidentified subassembly (Figure 3) was observed north of the incomplete bow section. 

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Two circular openings,  are in the corner of one end of the subassembly. The subassembly is on 2-meter-high pedestals. This subassembly remained in this position 


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(TSR) The teardrop-shaped opening in the unidentified superstructure section is similar to the opening in the forward weapons position of the modified KASHIN DDG (guided missile destroyer) Provornyy. The circular openings could be for gun or electronics positions. This function and the longitudinal framing of the incomplete bow section indicate that this ship may be a combatant. The presence of these subassemblies together with the slowing down of the KRESTA-II CG (guided missile cruiser) program, a possibly interim KRIVAK-I DD (destroyer) program, and extensive improvement/construction of the physical facilities at the shipyard indicate that a new class of surface combatant may be under construction.

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^{*} DIA/DB-5. NDA-06/5048/77, National Basic Reference Graphic, 13 May 77 (SECRET)

^{**} NPIC  Vytegrales SESS Conversion, Leningrad Shipyard Zhdanov 190, USSR, 31 Mar 77
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List of Conversion Factors by Classification

UNITS OF LENGTH

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
MILLIMETERS	0.0394	INCHES
CENTIMETERS	0.3937	INCHES
INCHES	25.4000	MILLIMETERS
INCHES	2.5400	CENTIMETERS
FEET	0.3048	METERS
FEET	0.0003	KILOMETERS
YARDS	0.9144	METERS
METERS	3.2808	FEET
METERS	0.0005	MILES(NAUTICAL)
METERS	1.0936	YARDS
KILOMETERS	3280.8400	FEET
KILOMETERS	0.6214	MILES(STATUTE)
KILOMETERS	0.5400	MILES(NAUTICAL)
MILES(STATUTE)	1.6093	KILOMETERS
MILES(NAUTICAL)	6076.1154	FEET
MILES(NAUTICAL)	1.8520	KILOMETERS
MILES(NAUTICAL)	1852.0000	METERS

UNITS OF MASS

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
KILOGRAMS	2.2046	POUNDS(AVOIR.)
POUNDS(AVOIR.)	0.4536	KILOGRAMS
SHORT TONS	0.9072	METRIC TONS
METRIC TONS	1.1023	SHORT TONS
METRIC TONS	0.9842	LONG TONS
LONG TONS	1.0160	METRIC TONS

UNITS OF VOLUME

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
LITERS	0.2642	GALLONS
LITERS	0.0063	BARRELS(POL)
LITERS	0.0010	CUBIC METERS
GALLONS	3.7854	LITERS
GALLONS	0.1337	CUBIC FEET
GALLONS	0.0238	BARRELS(POL)
GALLONS	0.0038	CUBIC METERS
BUSHELS	0.0352	CUBIC METERS
CUBIC FEET	7.4805	GALLONS
CUBIC FEET	0.1781	BARRELS(POL)
CUBIC FEET	0.0283	CUBIC METERS
CUBIC YARDS	0.7646	CUBIC METERS
BARRELS(POL)	158.9873	LITERS
BARRELS(POL)	42.0000	GALLONS
BARRELS(POL)	5.6146	CUBIC FEET
BARRELS(POL)	0.1590	CUBIC METERS
CUBIC METERS	1000.0000	LITERS
CUBIC METERS	264.1721	GALLONS
CUBIC METERS	35.3147	CUBIC FEET
CUBIC METERS	28.3776	BUSHELS
CUBIC METERS	6.2898	BARRELS(POL)
CUBIC METERS	1.3080	CUBIC YARDS

UNITS OF AREA

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
SQUARE CENTIMETERS	0.1550	SQUARE INCHES
SQUARE INCHES	6.4516	SQUARE CENTIMETERS
SQUARE FEET	0.0929	SQUARE METERS
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE METERS	10.7639	SQUARE FEET
SQUARE METERS	1.1960	SQUARE YARDS
SQUARE METERS	1.0000	CENTARES
SQUARE METERS	0.0002	ACRES
SQUARE METERS	0.0001	HECTARES
ACRES	4046.8564	SQUARE METERS
ACRES	0.4047	HECTARES
HECTARES	10000.0000	SQUARE METERS
HECTARES	2.4711	ACRES

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